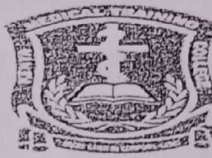


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KENYA MEDICAL TRAINING COLLEGE
FACULTY OF NURSING PROMOTIONAL EXAMINATION

PERIOD : END OF YEAR ONE SEMESTER 2
CLASS : KRCHN (B) SEPTEMBER 2017
PAPER : PAPER THREE. (3)
SUBJECT : PHARMACOLOGY (SUPPLEMENTARY)

Teacher's copy
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DATE: WEDNESDAY, 12TH SEPTEMBER 2018 TIME: 3 HOURS (8.30AM-11.30AM)

INSTRUCTIONS TO THE CANDIDATES

1. ENTER YOUR EXAMINATION NUMBER on every sheet of paper used
2. READ THE QUESTION carefully and answer only WHAT IS ASKED
3. FOR MULTIPLE CHOICE QUESTIONS write the correct answer in CAPITAL LETTERS
4. FOR SHORT ANSWER THE QUESTIONS, follow the instructions given by the invigilator
5. FOR LONG ANSWER QUESTIONS, answer each question on a separate sheet of paper
6. Omission of/and or wrong numbering of question or part of question will result in 10% deduction of the marks scored from the relevant part

Note:

- a) Mobile phones and WATCHES are **NOT** allowed in the exam room
- b) All candidates must "sign in" while handing in their scripts.

KIMTC/QP-08/15

PART I: MULTIPLE CHOICE QUESTIONS (MCQs) (20 MARKS)

1. **The drugs that are classified as Cephalosporins include:**
 - a) Cefixime, Loracarbef
 - b) Cephradine, Laroxyl
 - c) Cephtraixone, Lasix
 - d) Cefaclor, Clonazepam
2. **The antitussive agents are indicated to:**
 - a) Remove secretions.
 - b) Relieve rhinitis.
 - c) Control productive cough.
 - d) Relieve a dry cough.
3. **The nurse should instruct a client who is taking an expectorant to:**
 - a) Restrict fluids
 - b) Increase fluid intake
 - c) Avoid vaporizers.
 - d) Take antihistamine.
4. **The drugs that are classified as narcotic analgesics include:**
 - a) Acetylsalicylic acid, Indomethacin
 - b) Acetaminophen, Ibuprofen
 - c) Codeine, Morphine
 - d) Morphine, Diclofenac
5. **The action of hypnotic drugs is to induce:**
 - a) vomiting
 - b) appetite
 - c) sleep
 - d) calmness
6. **The antidote for morphine toxicity is**
 - a) Methadone
 - b) Fentanyl
 - c) Amphetamine
 - d) Naloxone
7. **The extent to which the drug is absorbed and transported to the target tissue is known as:-**
 - a) Steady-state accumulation.
 - b) ~~Therapeutic drug level~~
 - c) Bioavailability.
 - d) Distribution.

- 8. The actions of the body on the drug are referred to as:**
- Pharmacodynamics
 - Pharmacokinetics
 - Pharmacognosy
 - Pharmacogenomics
- 9. Mannitol is classified as:-**
- Potassium diuretics
 - Loop diuretics
 - Osmotic diuretics
 - Potassium sparing diuretics
- 10. The drug that increases blood sugar by stimulating glycogenolysis in the liver is:**
- Glimpride
 - Glyburide
 - Miglitol
 - Glucagon
- 11. Atenolol is a:-**
- Beta-2 agonist.
 - Beta blocker.
 - ACE-inhibitor
 - Calcium blocker.
- 12. The drugs that are classified as Penicillin include:**
- Methicillin Sodium, Nafcillin Sodium
 - Penicillin V, Ciprofloxacin
 - Ampicillin, Doxycycline
 - Erythromycin, Sotalol
- 13. The major signs of digitalis toxicity include:**
- Cardiac arrhythmias
 - Paraesthesia
 - Excessive slowing pulse rate
 - Generalised muscle weakness
- 14. Diclofenac Sodium produces anti-inflammatory, analgesic and antipyretic effects possibly by inhibiting the synthesis of:**
- Dopamine
 - Prostaglandin
 - Serotonin
 - Monamine oxidase
- 15. The antiulcer agents include:**
- Cimetidine, Ranitidine
 - Omeprazole, Tramadol
 - Famotidine, Sucralfate
 - Praziquantel, Ranitidine Hydrochloride

16. A patient receiving quinolones should be cautioned to anticipate:
- Increased salivation.
 - Constipation
 - Photosensitivity
 - Dry Cough.
17. An aminoglycoside antibiotic might be the drug of choice for the treating:
- Infections caused by gram negative bacteria.
 - Otitis media in infant two month old.
 - Cystitis in a woman who is 4 months pregnant.
 - Suspected pneumonia before culture and sensitivity
18. The component of a cell that interacts with a drug and initiates the chain of events leading to the drug's observed effects is called:
- An agonist
 - An antagonist
 - An effector
 - A receptor
19. During pre-operative period, the drugs used to achieve sedation, reduce and cause amnesia include:
- Diazepam, ranitidine.
 - Diazepam, scopolamine
 - Midazolam, Diazepam,
 - Midazolam, Atropine sulphate
20. Tetracycline is contraindicated to pregnant women because it has been associated with:
- Gray baby syndrome.
 - Excessive bleeding.
 - Allergic reactions
 - Tooth and bone defect in neonates.

PART II:- SHORT ANSWER QUESTIONS (SAQ) (40MARKS)

1. Explain three (3) factors that affect drug metabolism (6 Marks)
2. States even (7) principles of drug administration (7 marks)
3. State four classes of drugs used in management of peptic ulcer disease (4 marks)
4. Outline four (4) major aspects to consider under pharmacokinetics as a therapist nurse (4 marks)
5. List six (6) side-effects of opioids analgesics (3 Marks)
6. Outline the stock control procedure of drugs in a hospital ward (6 marks)
7. State five (5) factors that contribute to resistance to certain drugs in some patients (5 marks)
8. State the five(5) rights of drug administration (5marks)

PART III:- ESSAY/LONG ANSWER QUESTION (LAQ) (40MARKS).

1. **Mrs Pal aged 28 years is admitted to the medical ward presenting with malaria and is consequently initiated on treatment with Quinine.**
 - a) Explain the mode of action of Quinine (5 marks)
 - b) State five (5) side effects that Mrs Pal is likely to develop (5 marks)
 - c) Describe the nursing interventions that you will implement while providing care to Mrs Pal until the condition improves (10 marks)
2. Explain 10 factors that lead to non – compliance of drugs by patients (20 Marks).